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Flaxing #10

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THE NACCO MINING COMPANY
12800 SHAKER BOULEVARD
CLEVELAND, OHIO 44120

January 15, 1986

Mr. Larry Mamone
Division of Reclamation
Ohio Department of Natural Resources
Fountain Square, Building B
Columbus, Ohio 43224

Dear Mr. Mamone:

Per Division Advisory Memo Number 45, attached is an Anticipated Blast Design, Attachments 24, 25 and 26 and the Application to Revise Permit No. D-0360 for Powhatan No. 6 Mine.

If you require additional information, please contact me at 216-752-1000.

Very truly yours,

THE NACCO MINING COMPANY

Louise Watson
Permit Coordinator

LW:ab

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Fountain Square
Columbus, Ohio 43224

APPLICATION TO REVISE A COAL MINING PERMIT

1. Permittee's Name The Nacco Mining Company Phone # 614-926-1351
2. Address Powhatan Point, Ohio Powhatan No. 6 Mine
L. Watson (216) 752-1000
Note: Please address all questions to 12800 Shaker Blvd., Cleve., Oh 44120

3. Permit No. D-0360

4. Section of mining and reclamation plan to be revised:

Blasting Plan: Part 3 (C) Pages 18 and 19; Attachments 24, 25, & 26.

5. Describe in detail the proposed revision and submit any necessary drawings, plans, maps, etc.:

The permit is hereby altered to comply with revised rule 1501: 13-9-06

6. Describe in detail the reason for requesting the revision:

Per Division Advisory Memo No. 45

7. Will this revision adversely affect the area outside the permit area?

 Yes X No

8. Will this revision alter the final land use?

 Yes X No

9. Will this revision alter the final land configuration?

 Yes X No

(Continued)

10. Will this revision delay contemporaneous reclamation due to a change in the mining method?

_____ Yes X No

11. If the applicant answered "Yes" to any of items 7 through 10, complete the following items.

12. In the space below give the name and address of the newspaper in which the public notice is to be published?

13. In the space below give the text of the public notice that is to be published.

14. In the space below give the name and address of the public office where this application is to be filed for public viewing.

Signature _____

Title _____

(FOR DIVISION USE ONLY)

This request is hereby _____.

Date

Chief, Division of Reclamation

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Attachment 24

(OWNER'S CONSENT TO BLAST WITHIN 300 FEET OF A DWELLING OR STRUCTURE)

Applicant or Permittee's Name: _____

Application or Permit Number: _____

Pursuant to Rule 1501:13-9-06 of the Ohio Administrative Code, in order for a company to blast within 300 feet of a dwelling or any man-made structure, permission must be obtained from the owner(s) thereof. The company herein designated therefore requests that you sign this form, evidencing your consent to the company to conduct blasting within 300 feet of your dwelling or structure.

I/We, the undersigned, hereby give my/our consent to _____ (applicant or permittee) to conduct strip mine blasting operations within 300 feet, but no closer than _____ feet, of my/our structure(s) described below.

1. Type of Dwelling or Structure(s): _____

Location: County _____ Township _____

Section _____ Lot _____

2. Stipulations to be Imposed Upon the Applicant or Permittee (Extra precautions beyond the public safety, flyrock, and vibration requirements of Rule 1501:13-9-06 of the Administrative Code):

None _____; Other: _____

3. Name(s) and Signature(s) of Owner(s) or Public Road Authority:

Owner's Name (print) _____

Corporate or Public Officer's Name and Title (print) _____

Signature _____ Date: _____

Owner's Name (print) _____

Corporate or Public Officer's Name and Title (print) _____

Signature _____ Date: _____

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Attachment 25
(CONSENT TO BLAST WITHIN 500 FEET OF AN UNDERGROUND MINE)

Applicant or Permittee's Name: _____

Application or Permit Number: _____

Pursuant to Rule 1501:13-9-06 of the Ohio Administrative Code, in order for a company to blast within 500 feet of an underground mine not totally abandoned, permission must be obtained from the owner(s) thereof, and from all state and federal regulatory authorities concerned with the health and safety of underground miners. The company herein designated therefore requests that you sign this form, evidencing your consent to the company to conduct blasting within 500 feet of the underground mine described below.

I/We, the undersigned, hereby give my/our consent to _____ (applicant or permittee) to conduct strip mine blasting operations within 500 feet (measured horizontally), but no closer than _____ feet (measured horizontally), of the underground mine described below.

1. Name/Identification of Mine: _____

Location: County _____ Township _____

Section _____ Lot _____

2. Stipulations to be Imposed Upon the Applicant or Permittee (Extra precautions beyond the public safety, flyrock, and vibration requirements of Rule 1501:13-9-06 of the Administrative Code):

None _____; Other: _____

3. Owner(s) of Mine (may be a corporation): _____

Authorized Signature: _____ Date: _____

Title: _____

4. Approved by Ohio Department of Industrial Relations, Division of Mines:

Chief's Signature: _____ Date: _____

5. Approved by United States Department of Labor, Mine Safety and Health Administration:

Name (print) _____

Authorized Signature: _____ Date: _____

Title: _____

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Attachment 24

(OWNER'S CONSENT TO BLAST WITHIN 300 FEET OF A DWELLING OR STRUCTURE)

Applicant or Permittee's Name: _____

Application or Permit Number: _____

Pursuant to Rule 1501:13-9-06 of the Ohio Administrative Code, in order for a company to blast within 300 feet of a dwelling or any man-made structure, permission must be obtained from the owner(s) thereof. The company herein designated therefore requests that you sign this form, evidencing your consent to the company to conduct blasting within 300 feet of your dwelling or structure.

I/We, the undersigned, hereby give my/our consent to _____ (applicant or permittee) to conduct strip mine blasting operations within 300 feet, but no closer than _____ feet, of my/our structure(s) described below.

1. Type of Dwelling or Structure(s): _____

Location: County _____ Township _____

Section _____ Lot _____

2. Stipulations to be Imposed Upon the Applicant or Permittee (Extra precautions beyond the public safety, flyrock, and vibration requirements of Rule 1501:13-9-06 of the Administrative Code):

None _____; Other: _____

3. Name(s) and Signature(s) of Owner(s) or Public Road Authority:

Owner's Name (print) _____

Corporate or Public Officer's Name and Title (print) _____

Signature _____ Date: _____

Owner's Name (print) _____

Corporate or Public Officer's Name and Title (print) _____

Signature _____ Date: _____

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Attachment 25
(CONSENT TO BLAST WITHIN 500 FEET OF AN UNDERGROUND MINE)

Applicant or Permittee's Name: _____

Application or Permit Number: _____

Pursuant to Rule 1501:13-9-06 of the Ohio Administrative Code, in order for a company to blast within 500 feet of an underground mine not totally abandoned, permission must be obtained from the owner(s) thereof, and from all state and federal regulatory authorities concerned with the health and safety of underground miners. The company herein designated therefore requests that you sign this form, evidencing your consent to the company to conduct blasting within 500 feet of the underground mine described below.

I/We, the undersigned, hereby give my/our consent to _____ (applicant or permittee) to conduct strip mine blasting operations within 500 feet (measured horizontally), but no closer than _____ feet (measured horizontally), of the underground mine described below.

1. Name/Identification of Mine: _____

Location: County _____ Township _____

Section _____ Lot _____

2. Stipulations to be Imposed Upon the Applicant or Permittee (Extra precautions beyond the public safety, flyrock, and vibration requirements of Rule 1501:13-9-06 of the Administrative Code):

None _____; Other: _____

3. Owner(s) of Mine (may be a corporation): _____

Authorized Signature: _____ Date: _____

Title: _____

4. Approved by Ohio Department of Industrial Relations, Division of Mines:

Chief's Signature: _____ Date: _____

5. Approved by United States Department of Labor, Mine Safety and Health Administration:

Name (print) _____

Authorized Signature: _____ Date: _____

Title: _____

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Attachment 26

(PROPOSED GROUND VIBRATION LIMITS FOR ALL STRUCTURES NOT LISTED UNDER PARAGRAPH (F)(6)(a) OF RULE 1501:13-9-06 OF THE ADMINISTRATIVE CODE)

Applicant or Permittee's Name: _____

Application or Permit Number: _____

1. Structure(s): _____

a. Location relative to proposed or existing permit area: _____

b. Peak-particle-velocity limit: _____ inches per second.

c. Basis for this limit (if greater than 2.0 inches per second):

d. Will a seismograph record be provided for each blast to ensure compliance with this limit? _____ Yes, _____ No. If "no", what scaled distance factor will be applied in the absence of seismographic monitoring? _____.

2. Structure(s): _____

a. Location relative to proposed or existing permit area: _____

b. Peak-particle-velocity limit: _____ inches per second.

c. Basis for this limit (if greater than 2.0 inches per second):

d. Will a seismograph record be provided for each blast to ensure compliance with this limit? _____ Yes, _____ No. If "no", what scaled distance factor will be applied in the absence of seismographic monitoring? _____.

C. Blasting

1. Will blasting operations be conducted during this surface coal mining and reclamation operation?
 Yes, No. If "Yes", respond to items 2 through 15.
2. Will blasting be conducted within one thousand feet of any dwelling, public or commercial building, school, church, or community or institutional building, or within five hundred feet of an active or abandoned underground mine? Yes, No. If "Yes", attach an anticipated blast design prepared in accordance with paragraph (B) of Rule 1501:13-9-06 of the Administrative Code.
3. Submit, as an addendum, a listing of the names and addresses of the residents or owners of each dwelling or other structure within one-half mile of the permit area who must receive the preblast survey notification, required under paragraph (C)(1) of rule 1501:13-9-06 of the Administrative Code.
4. Submit, as an addendum, a listing of the names and addresses of the local governments, public utilities, and each residence and occupied building within one-half mile of the proposed blasting area that must receive a copy of the blasting schedule required by paragraph (D)(3) of rule 1501:13-9-06 of the Administrative Code. This list may be combined with the list required by item 3 above, provided that it is clearly indicated which persons will receive the preblast survey notification and which persons will receive the blasting schedule (or both).
5. Describe the methods to be used to distribute the preblast survey notifications and copies of the blasting schedule.
6. Submit, as an addendum, a copy of the blasting schedule that contains the information required by paragraph (D)(5) of the Administrative Code.

Part 3 (Blasting Plan, Revised 12-1-85)

7. Provide the name and address of the newspaper in which the blasting schedule will be published.

8. Will blasting be conducted within one-half mile of any public or private institution such as a school or church in session, or a residential, mental or physical health care facility? _____ Yes, _____ No. If "yes" identify the institutions and either describe the methods of notification to be used or submit a statement signed by the administrator of each institution, waiving the right to be notified.

9. Describe the airblast measuring system to be used, and the proposed procedures and locations of periodic monitoring to ensure compliance with the airblast limits of paragraph (F)(5) of rule 1501:13-9-06 of the Administrative Code by completing the following:

Name and model of instrument: _____

Record type (check one): _____ full wave-trace;
_____ peak value only.

Recording medium (check one): _____ photo-sensitive paper;
_____ cassette tape; _____ direct print;
other: (describe) _____

Flat-frequency response: Upper end _____ Herz;
Lower end _____ Herz.

Describe the proposed monitoring locations:

Describe the average frequency of proposed monitoring:

Part 3 (Blasting Plan, Revised 12-1-85)

10. Which of the following ground vibration limits will be applied at any dwelling, public or commercial building, school, church, or community or institutional building outside the permit area? (Check one or both).

_____ (a) The maximum peak-particle-velocity limits of paragraph (F)(7) of rule 1501:13-9-06 of the Administrative Code. (A seismographic record shall be provided for each blast, unless the scaled-distance equation of paragraph (F)(9) of rule 1501:13-9-06 of the Administrative Code is used.)

_____ (b) The ground vibration limits in the blasting-level chart of paragraph (F)(8) of Rule 1501:13-9-06 of the Administrative Code. (A seismographic record including both particle velocities and an electronic analysis of vibration frequencies shall be provided for each blast.)

11. Describe the proposed ground vibration limits which shall not be exceeded at all other structures in the vicinity of the blasting area such as water towers, pipelines and other utilities, communication and transmission towers, public roads, tunnels, dams, impoundments, and underground mines. You only need to fill out one section below for "all structures not listed under item F.10. above." Or, you may propose different limits for specific structures or groups of structures by filling out as many sections as needed on attachment 26.

Structure(s): _____

Location relative to proposed permit area: _____

Peak-particle-velocity limit: _____ inches per second.

Basis for this limit: (if greater than 2.0 inches per second):

Will a seismograph record be provided for each blast to ensure compliance with this limit?

_____ Yes, _____ No. If "no", what scaled-distance factor will be applied in the absence of seismographic monitoring? _____

Part 3 (Blasting Plan, Revised 12-1-85)

12. If a seismographic record will be required for any blasts, describe the seismograph system to be used, and the proposed procedures and locations of monitoring, by completing the following:

Name and model of instrument: _____

Monitoring functions (check one or both):

_____ vertical, longitudinal, and transverse components;
_____ true vector-sum.

Record type (check one): _____ full wave-trace
_____ peak value only.

Recording medium (check one): _____ photo-sensitive paper;
_____ cassette tape; _____ direct print;
_____ other: (describe); _____

Seismic frequency range: Upper end _____ Herz;
Lower end _____ Herz.

In addition to seismograph monitoring at the nearest dwelling, public or commercial building, school, church, or community or institutional building outside the permit area, describe any additional monitoring locations proposed. (If none, write "none")

13. Attach a copy of the blast record to be used which will meet the requirements of paragraph (G)(3) of rule 1501:13-9-06 of the Administrative Code. Will the blast records be retained at the permit site?

_____ Yes, _____ No. If "no", describe the location where they will be kept on file, including the exact physical address (no P.O. Box numbers).

14. Will blasting be conducted within three hundred feet of any dwelling or man-made structure listed under paragraphs (F)(6)(a) and (F)(6)(b) of Rule 1501:13-9-06 of the Administrative Code? _____ Yes, _____ No. If "Yes", submit Attachment 24.

15. Will blasting be conducted within five hundred feet of an underground mine not totally abandoned?
_____ Yes, _____ No. If "Yes", submit Attachment 25.

Part 3 (Blasting Plan, Revised 12-1-85)

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION
Attachment 26

(PROPOSED GROUND VIBRATION LIMITS FOR ALL STRUCTURES NOT LISTED UNDER
PARAGRAPH (F)(6)(a) OF RULE 1501:13-9-06 OF THE ADMINISTRATIVE CODE)

Applicant or Permittee's Name: _____

Application or Permit Number: _____

1. Structure(s): _____

a. Location relative to proposed or existing permit area: _____

b. Peak-particle-velocity limit: _____ inches per second.

c. Basis for this limit (if greater than 2.0 inches per second):

d. Will a seismograph record be provided for each blast to ensure compliance with this limit? _____ Yes, _____ No. If "no", what scaled distance factor will be applied in the absence of seismographic monitoring? _____.

2. Structure(s): _____

a. Location relative to proposed or existing permit area: _____

b. Peak-particle-velocity limit: _____ inches per second.

c. Basis for this limit (if greater than 2.0 inches per second):

d. Will a seismograph record be provided for each blast to ensure compliance with this limit? _____ Yes, _____ No. If "no", what scaled distance factor will be applied in the absence of seismographic monitoring? _____.

C. Blasting

1. Will blasting operations be conducted during this surface coal mining and reclamation operation?
_____ Yes, _____ No. If "Yes", respond to items 2 through 15.
2. Will blasting be conducted within one thousand feet of any dwelling, public or commercial building, school, church, or community or institutional building, or within five hundred feet of an active or abandoned underground mine? _____ Yes, _____ No. If "Yes", attach an anticipated blast design prepared in accordance with paragraph (B) of Rule 1501:13-9-06 of the Administrative Code.
3. Submit, as an addendum, a listing of the names and addresses of the residents or owners of each dwelling or other structure within one-half mile of the permit area who must receive the preblast survey notification, required under paragraph (C)(1) of rule 1501:13-9-06 of the Administrative Code.
4. Submit, as an addendum, a listing of the names and addresses of the local governments, public utilities, and each residence and occupied building within one-half mile of the proposed blasting area that must receive a copy of the blasting schedule required by paragraph (D)(3) of rule 1501:13-9-06 of the Administrative Code. This list may be combined with the list required by item 3 above, provided that it is clearly indicated which persons will receive the preblast survey notification and which persons will receive the blasting schedule (or both).
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Part 3 (Blasting Plan, Revised 12-1-85)

7. Provide the name and address of the newspaper in which the blasting schedule will be published.

8. Will blasting be conducted within one-half mile of any public or private institution such as a school or church in session, or a residential, mental or physical health care facility? _____ Yes, _____ No. If "yes" identify the institutions and either describe the methods of notification to be used or submit a statement signed by the administrator of each institution, waiving the right to be notified.

9. Describe the airblast measuring system to be used, and the proposed procedures and locations of periodic monitoring to ensure compliance with the airblast limits of paragraph (F) (5) of rule 1501:13-9-06 of the Administrative Code by completing the following:

Name and model of instrument: _____

Record type (check one): _____ full wave-trace;
_____ peak value only.

Recording medium (check one): _____ photo-sensitive paper;
_____ cassette tape; _____ direct print;
other: (describe) _____

Flat-frequency response: Upper end _____ Herz;
Lower end _____ Herz.

Describe the proposed monitoring locations:

Describe the average frequency of proposed monitoring:

10. Which of the following ground vibration limits will be applied at any dwelling, public or commercial building, school, church, or community or institutional building outside the permit area? (Check one or both).

_____ (a) The maximum peak-particle-velocity limits of paragraph (F)(7) of rule 1501:13-9-06 of the Administrative Code. (A seismographic record shall be provided for each blast, unless the scaled-distance equation of paragraph (F)(9) of rule 1501:13-9-06 of the Administrative Code is used.)

_____ (b) The ground vibration limits in the blasting-level chart of paragraph (F)(8) of Rule 1501:13-9-06 of the Administrative Code. (A seismographic record including both particle velocities and an electronic analysis of vibration frequencies shall be provided for each blast.)

11. Describe the proposed ground vibration limits which shall not be exceeded at all other structures in the vicinity of the blasting area such as water towers, pipelines and other utilities, communication and transmission towers, public roads, tunnels, dams, impoundments, and underground mines. You only need to fill out one section below for "all structures not listed under item F.10. above." Or, you may propose different limits for specific structures or groups of structures by filling out as many sections as needed on attachment 26.

Structure(s): _____

Location relative to proposed permit area: _____

Peak-particle-velocity limit: _____ inches per second.

Basis for this limit: (if greater than 2.0 inches per second):

Will a seismograph record be provided for each blast to ensure compliance with this limit?

_____ Yes, _____ No. If "no", what scaled-distance factor will be applied in the absence of seismographic monitoring? _____

12. If a seismographic record will be required for any blasts, describe the seismograph system to be used, and the proposed procedures and locations of monitoring, by completing the following:

Name and model of instrument: _____

Monitoring functions (check one or both):

_____ vertical, longitudinal, and transverse components;
_____ true vector-sum.

Record type (check one): _____ full wave-trace
_____ peak value only.

Recording medium (check one): _____ photo-sensitive paper;
_____ cassette tape; _____ direct print;
_____ other: (describe); _____

Seismic frequency range: Upper end _____ Herz;
Lower end _____ Herz.

In addition to seismograph monitoring at the nearest dwelling, public or commercial building, school, church, or community or institutional building outside the permit area, describe any additional monitoring locations proposed. (If none, write "none")

13. Attach a copy of the blast record to be used which will meet the requirements of paragraph (G)(3) of rule 1501:13-9-06 of the Administrative Code. Will the blast records be retained at the permit site?

_____ Yes, _____ No. If "no", describe the location where they will be kept on file, including the exact physical address (no P.O. Box numbers).

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15. Will blasting be conducted within five hundred feet of an underground mine not totally abandoned?
_____ Yes, _____ No. If "Yes", submit Attachment 25.

Part 3 (Blasting Plan, Revised 12-1-85)